ABSTRACT OF THE DISCLOSURE

A force sensing element is provided with a gauge portion and a plurality of electrodes. The gauge portion is formed of an n-type semiconductor substrate whose (100)-face serves as a main face, a p-type semiconductor substrate whose (110)-face serves as a main face, or a p-type semiconductor substrate whose (111)-face serves as a main face, and is pressed in a thickness direction of the semiconductor substrate upon receiving a force. The electrodes are electrically connected to the gauge portion such that a current path extending in a direction corresponding to the thickness direction of the semiconductor substrate is formed in the gauge portion. The force sensing element thus constructed makes it possible to detect a force with high precision.